



MAGICDOT NEO

PHOTOMETRY



AYRTON
Digital Lighting



Total Flux	3,000 lm (Sphere, fan mode Stage, wide zoom)
------------	--

CCT balanced white (CTC channel at 15/255)	6500 (±100 K)
--	---------------

Ra balanced white (CTC channel at 15/255)	75 (±2)
---	---------

TLCI balanced white (CTC channel at 15/255)	66
---	----

TM-30 balanced white (CTC channel at 15/255)	Rf: 80.9 Rg: 116
--	------------------

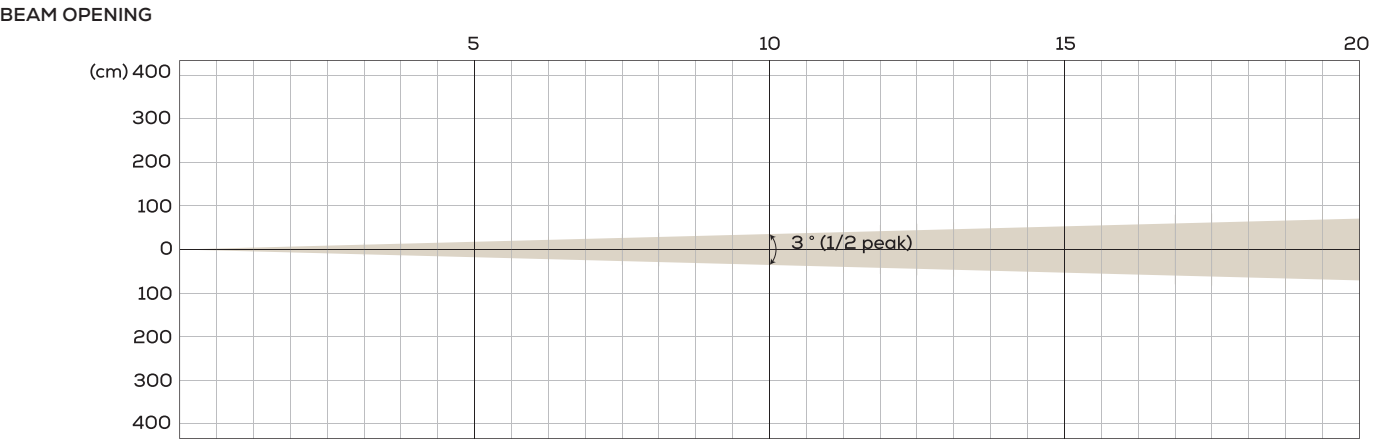
Fan Mode	Noise Level (dBA)	by Goniometer (lm)	by Sphere (lm)
Auto	38.9	1500	2700
Stage	45.7	1700	3000
Silence	30.5	1230	2200
Super Silence	29.2	1000	1600

Note: noise measured @1m distance, static status, ambient 10 dBA.

Voltage / Power	100-240 V, 50-60 Hz	160 W
Fixture Dimension / Weight	197 x 340 x 197 mm	6.6 kg
Packing Dimension / Weight	435 x 315 x 285 mm	9.1 kg

AUTO MODE

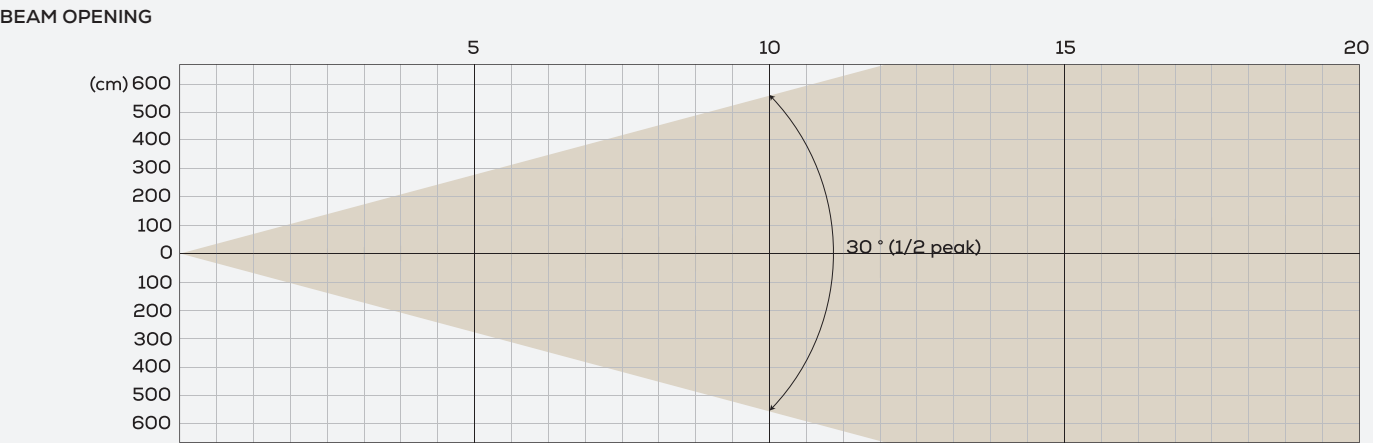
MIN ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
Red	2,941	0.35	735	0.7	368	1.05	184	1.4
Green	6,228	0.35	1,557	0.7	779	1.05	389	1.4
Blue	865	0.35	216	0.7	108	1.05	54	1.4
Lime	10,380	0.35	2,595	0.7	1,298	1.05	649	1.4
RGB-L	17,300	0.35	4,325	0.7	2,163	1.05	1,081	1.4

MAX ZOOM

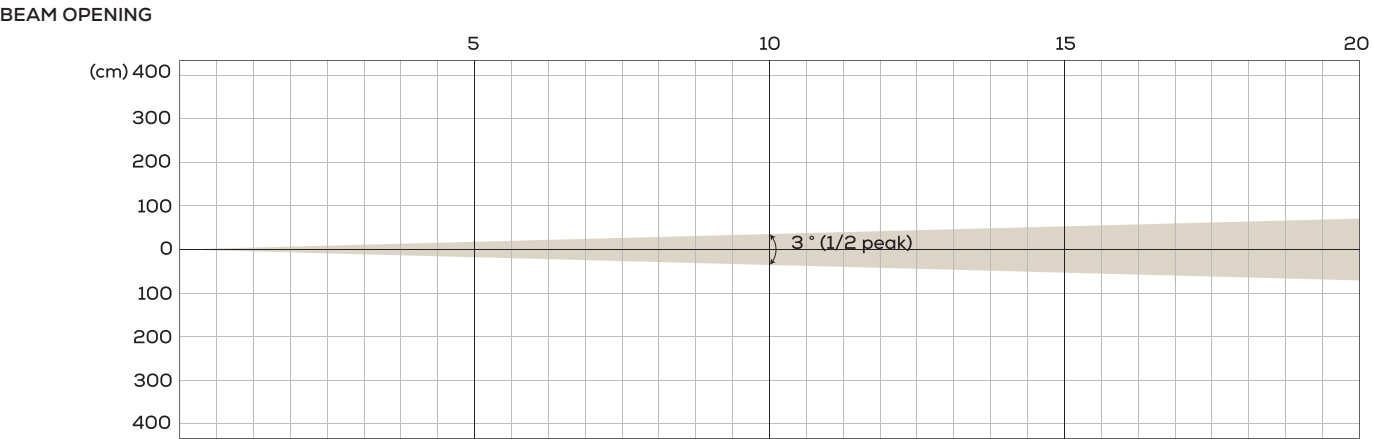


INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
Red	71	5.54	18	11.09	9	16.63	4	22.17
Green	151	5.54	38	11.09	19	16.63	9	22.17
Blue	21	5.54	5	11.09	3	16.63	1	22.17
Lime	252	5.54	63	11.09	32	16.63	16	22.17
RGB-L	420	5.54	105	11.09	53	16.63	26	22.17

STAGE MODE

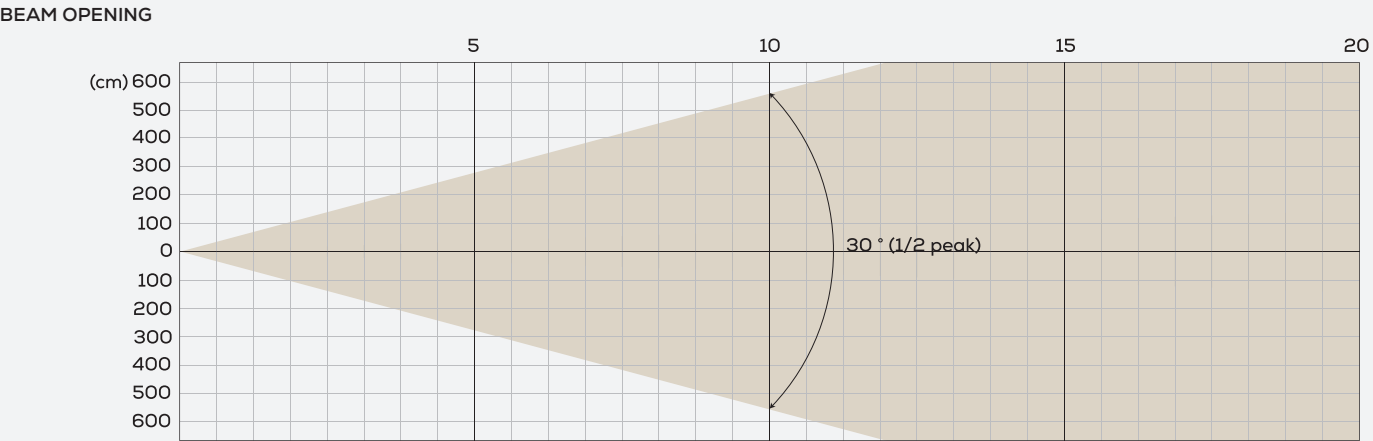
MIN ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
Red	3,332	0.35	833	0.7	417	1.05	208	1.4
Green	7,056	0.35	1,764	0.7	882	1.05	441	1.4
Blue	980	0.35	245	0.7	123	1.05	61	1.4
Lime	11,760	0.35	2,940	0.7	1,470	1.05	735	1.4
RGB-L	19,600	0.35	4,900	0.7	2,450	1.05	1,225	1.4

MAX ZOOM

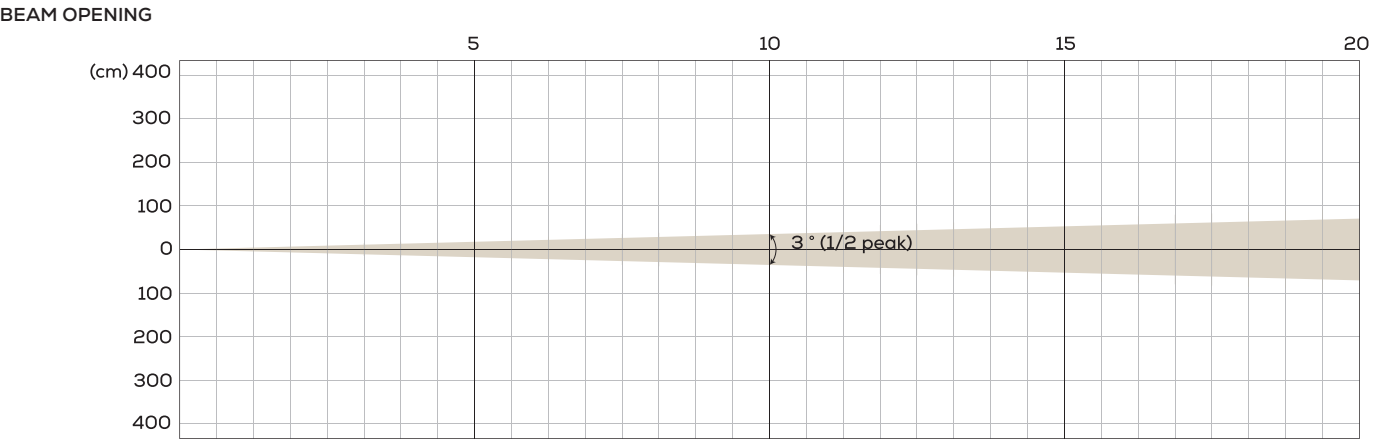


INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
Red	81	5.54	20	11.09	10	16.63	5	22.17
Green	171	5.54	43	11.09	21	16.63	11	22.17
Blue	24	5.54	6	11.09	3	16.63	2	22.17
Lime	285	5.54	71	11.09	36	16.63	18	22.17
RGB-L	475	5.54	119	11.09	59	16.63	30	22.17

SILENCE MODE

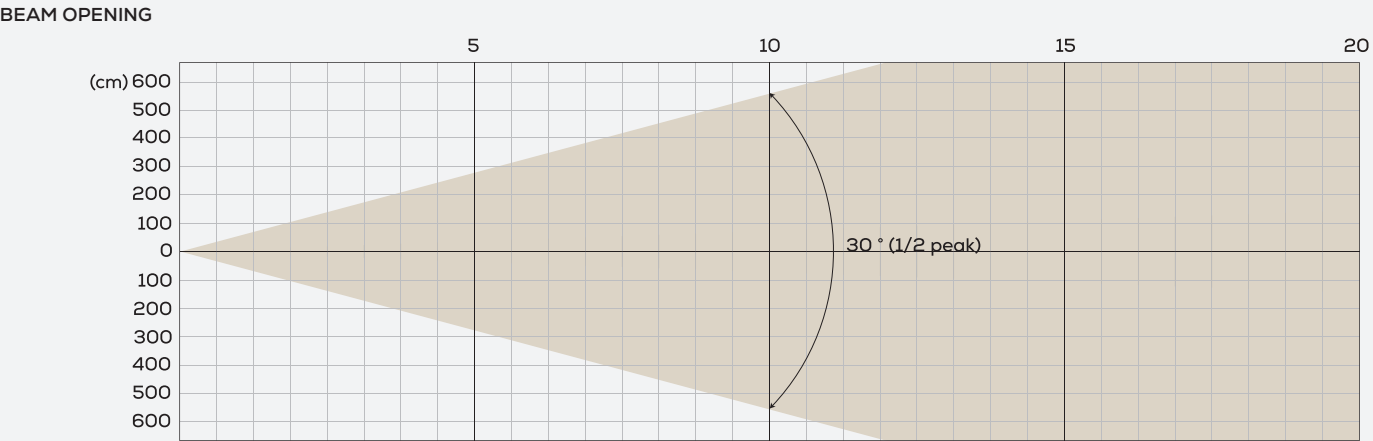
MIN ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
Red	2,414	0.35	604	0.7	302	1.05	151	1.4
Green	5,112	0.35	1,278	0.7	639	1.05	320	1.4
Blue	710	0.35	178	0.7	89	1.05	44	1.4
Lime	8,520	0.35	2,130	0.7	1,065	1.05	533	1.4
RGB-L	14,200	0.35	3,550	0.7	1,775	1.05	888	1.4

MAX ZOOM

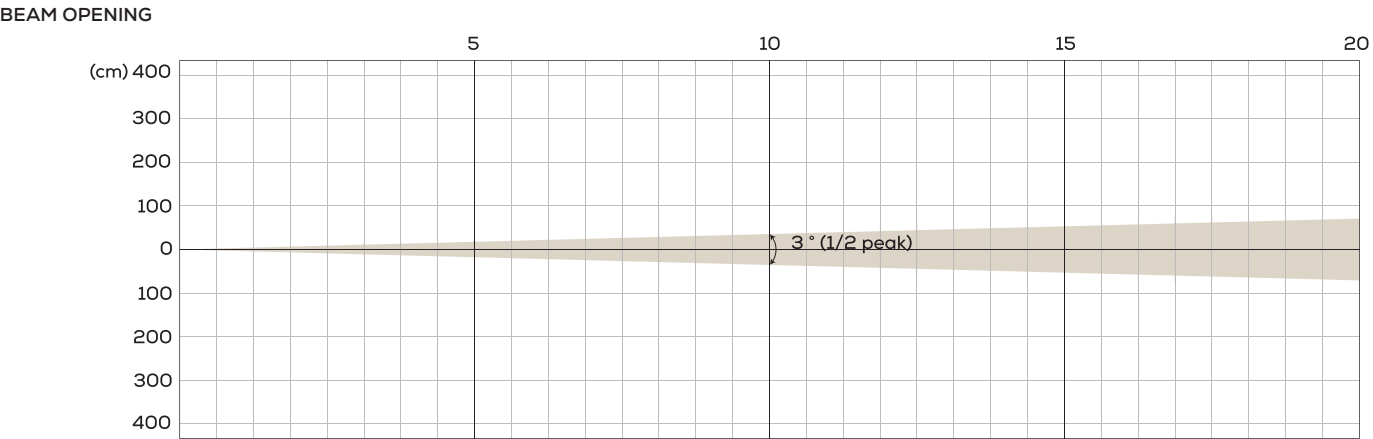


INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
Red	58	5.54	15	11.09	7	16.63	4	22.17
Green	124	5.54	31	11.09	16	16.63	8	22.17
Blue	17	5.54	4	11.09	2	16.63	1	22.17
Lime	206	5.54	52	11.09	26	16.63	13	22.17
RGB-L	344	5.54	86	11.09	43	16.63	22	22.17

SUPER SILENCE MODE

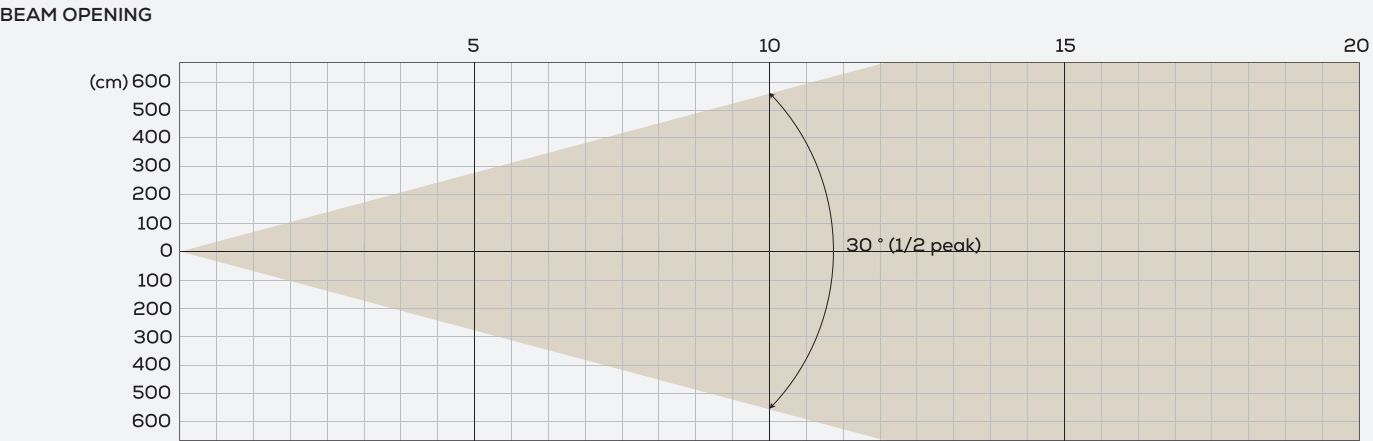
MIN ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
Red	1,938	0.35	485	0.7	242	1.05	121	1.4
Green	4,104	0.35	1,026	0.7	513	1.05	257	1.4
Blue	570	0.35	143	0.7	71	1.05	36	1.4
Lime	6840	0.35	1,710	0.7	855	1.05	428	1.4
RGB-L	11,400	0.35	2,850	0.7	1425	1.05	713	1.4

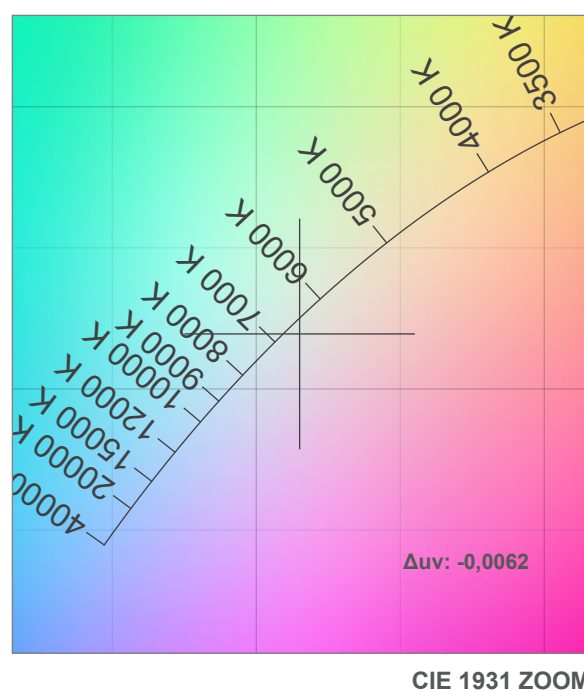
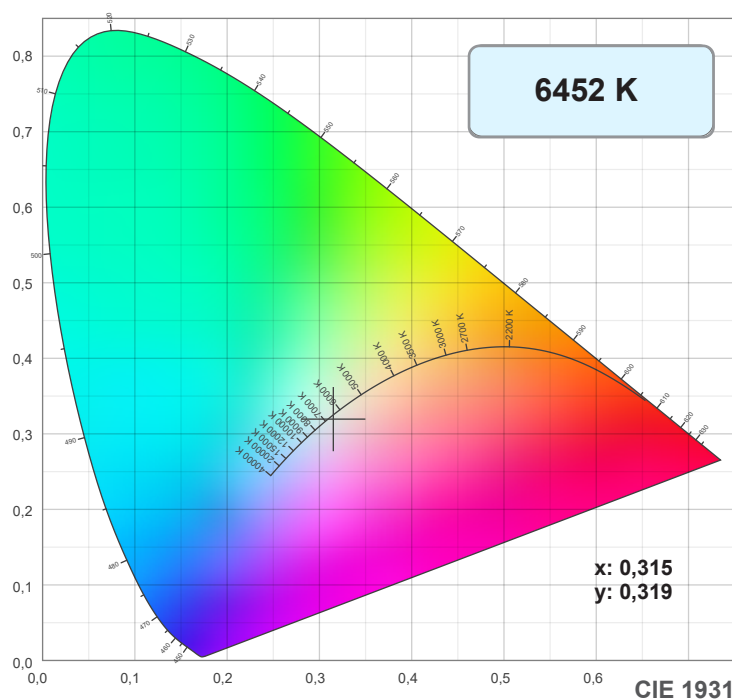
MAX ZOOM



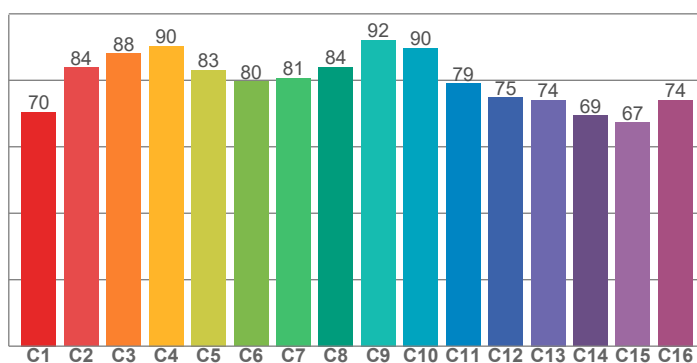
INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
Red	47	5.54	12	11.09	6	16.63	3	22.17
Green	100	5.54	25	11.09	13	16.63	6	22.17
Blue	14	5.54	4	11.09	2	16.63	1	22.17
Lime	166	5.54	42	11.09	21	16.63	10	22.17
RGB-L	277	5.54	69	11.09	35	16.63	17	22.17

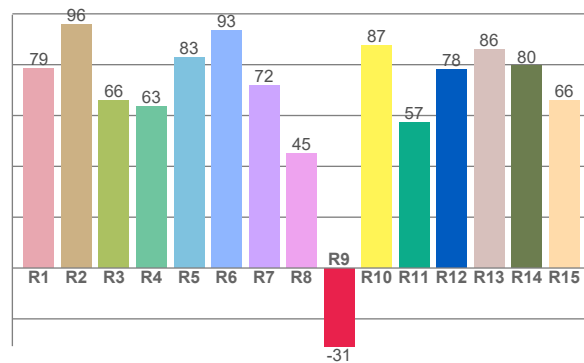
COLOUR DETAILS



TM-30: 80,9



CRI: 74,6 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
78,5	95,8	66,0	63,4	82,8	93,3	71,7	44,9	-30,7	87,4	57,3	78,1	86,1	79,5	66,1

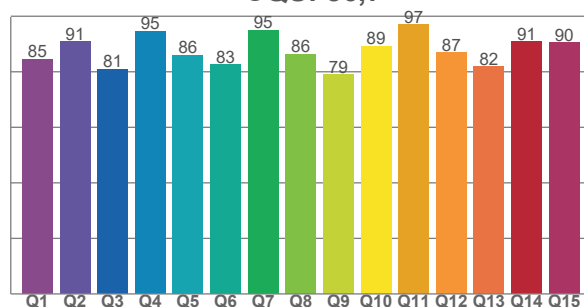
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
70,4	83,8	88,1	90,3	83,1	79,6	80,7	84,0	92,1	89,7	79,0	74,9	74,0	69,5	67,3	74,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
84,5	90,9	80,9	94,7	85,9	82,6	95,0	86,3	78,9	89,2	96,9	87,0	81,9	90,8	90,4

CQS: 86,7



Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
6452 K	74,6	-30,7	80,9	116,0	86,7	0,315	0,319	0,203	0,309	-0,0062

TM-30 DETAILS

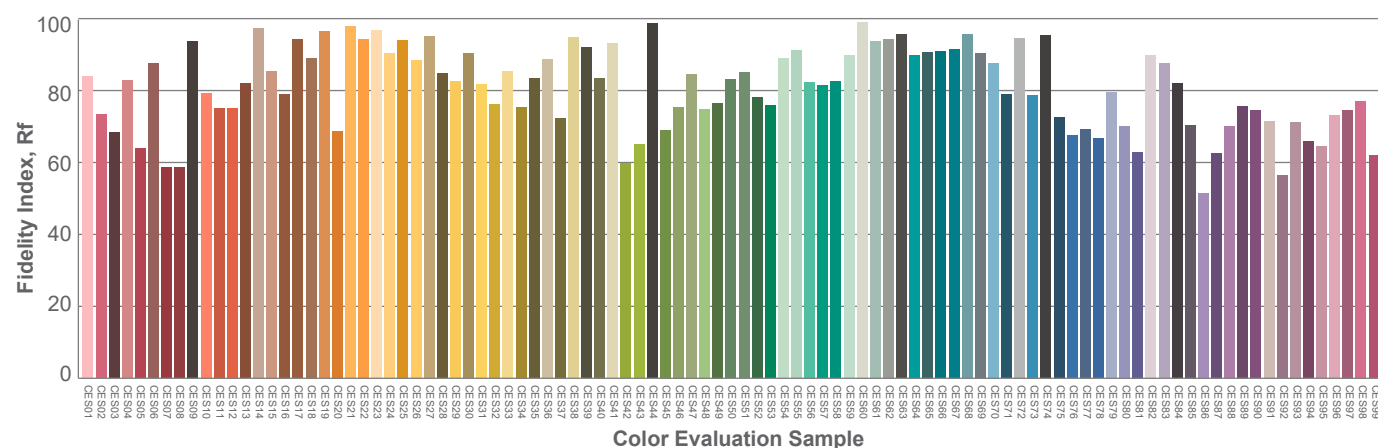
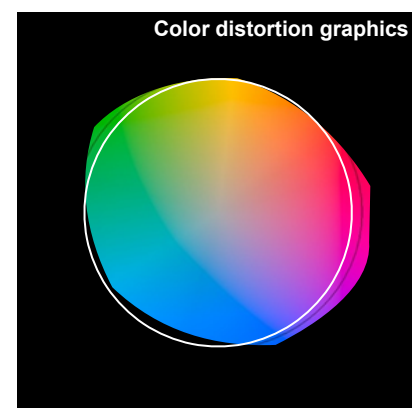
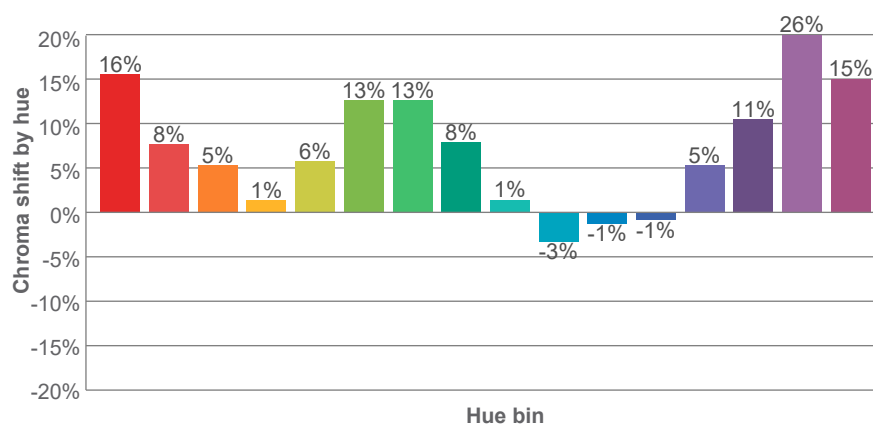
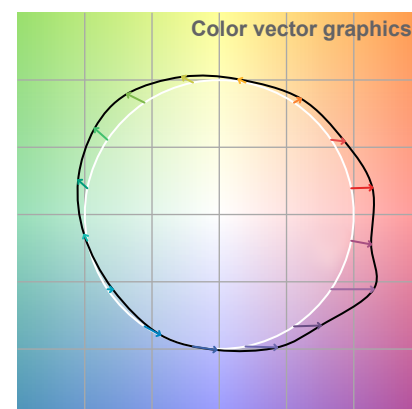
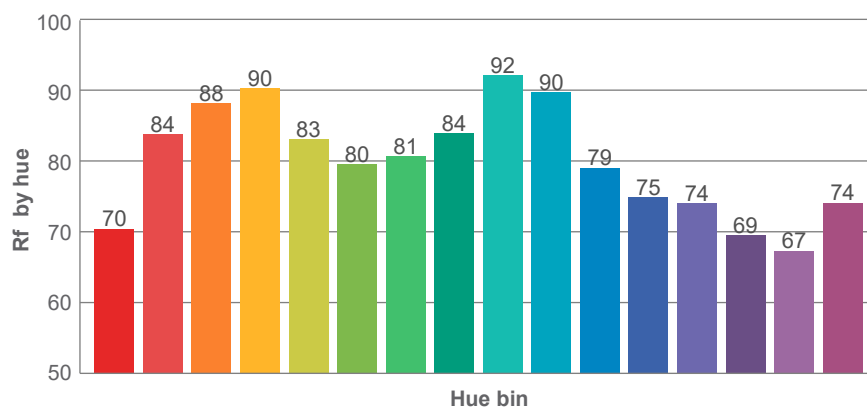
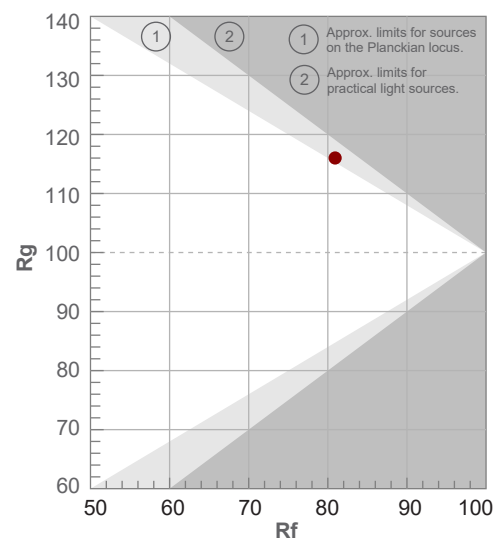
Rf 80,9

Fidelity index Rf

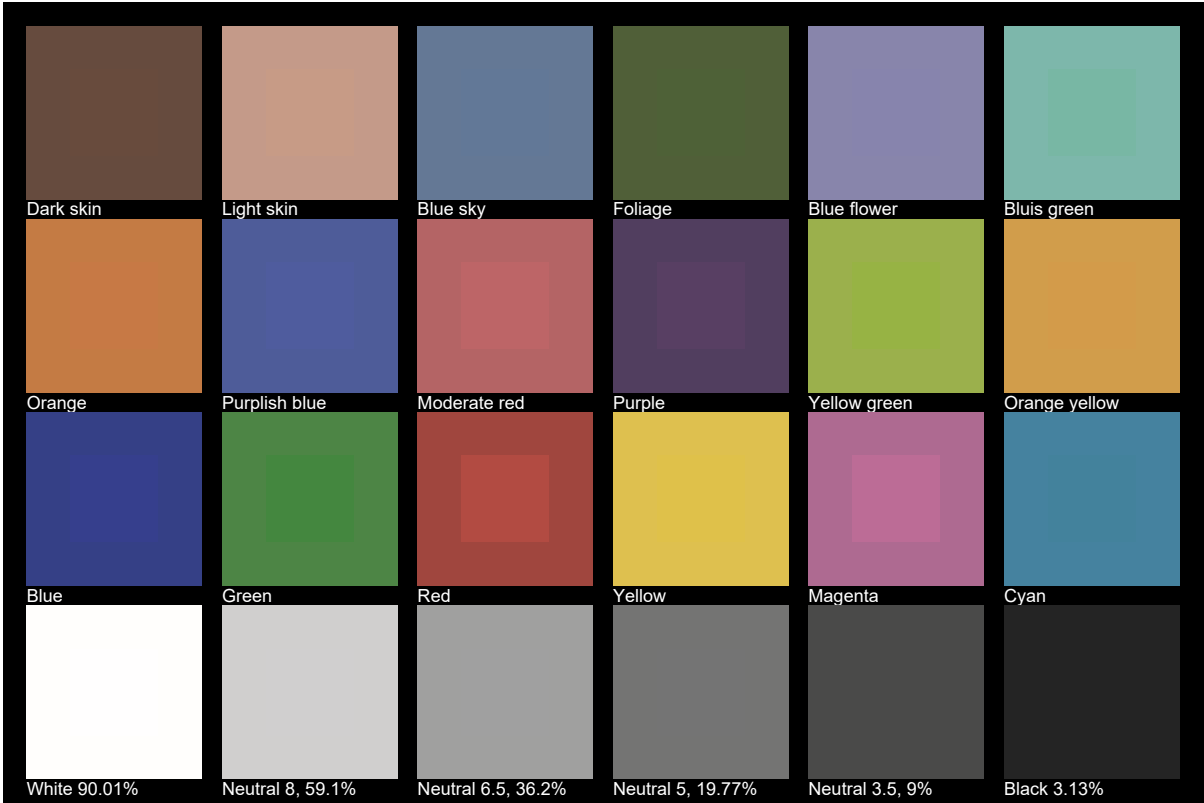
Rg 116,0

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	70	16%	-3%
2	84	8%	-7%
3	88	5%	-3%
4	90	1%	6%
5	83	6%	7%
6	80	13%	7%
7	81	13%	-2%
8	84	8%	-5%
9	92	1%	-5%
10	90	-3%	2%
11	79	-1%	13%
12	75	-1%	18%
13	74	5%	23%
14	69	11%	17%
15	67	26%	18%
16	74	15%	0%



TLCI 66





AYRTON
Digital Lighting